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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/761,190	01/18/2001	Yat-Tung Lam	MP0042CIP	6456

23624 7590 04/27/2005

MARVELL SEMICONDUCTOR, INC.
INTELLECTUAL PROPERTY DEPARTMENT
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EXAMINER

MAI, TAN V

ART UNIT	PAPER NUMBER
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2193

DATE MAILED: 04/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/761,190

Applicant(s)

LAM ET AL.

Examiner

Tan V. Mai

Art Unit

2193

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 October 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8,26-33,51-55 and 61-69 is/are pending in the application.
- 4a) Of the above claim(s) 64-65 and 68-69 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8,26-33,51-55,61-63,66 and 67 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 1-3, 5-8, 26-28, 30-33, 51-53, 55, 61-63 and 66-67 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Morrow or Sumi et al in view of Shanks.

Rejection grounds continue to be those set forth in the previous office action (Paper mailed 7/27/04, paragraph 5).

3. Claims 4, 29 and 54 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Morrow or Sumi et al in view of Shanks as applied to claims 2, 27 and 52 above, and further in view of Lish.

Rejection grounds continue to be those set forth in the previous office action (Paper mailed 7/27/04, paragraph 6).

4. Applicant's arguments filed on 10-27-04 have been fully considered but they are not persuasive.

Applicant, in their remarks, argue that:

"[i]t is respectfully submitted that Shanks does not disclose or suggest the features of a **shared wiring**, a first memory coupled to a second end of the shared wiring, and a second memory coupled to the second end of the shared wiring. Therefore, it is respectfully submitted that Shanks does not address the above-identified deficiencies of both Morrow and Sumi" (emphasis added).

With respect to the arguments, the examiner carefully reviews all the applied references and the claimed invention.

The examiner agrees with Applicants that Shanks does not show the “wiring is shared for all of the coefficients supplied from the LMS engine 50 to its corresponding tap of the FIR filter”; however, Shanks feature is capable of providing the equivalent function because the “controller 55 'sequentially selects the coefficient to be provided by the LMS engine 50 and a respective memory (80-1 . . . 80-n) to store the coefficient” (see Applicants' Remarks, page 16, last incomplete paragraph). It implies that the coefficient is stored in respective memory once a time. Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to combine Shanks feature in either Morrow or Sumi et al, thereby making the claimed invention, because the proposed device is a FIR filter having “shared wiring” for storing the desired coefficients as claimed.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726. The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is:

Official (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.



Tan V. Mai
Primary Examiner